The Essential Oil Company

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

PRODUCT NAME: CARDAMOM OIL
BOTANICAL/CHEMICAL NAME: Eletraria cardamomum
MOLECULAR WEIGHT: N/A
MOLECULAR FORMULA: N/A
CLP REFERENCE NUMBER: N/A
REACH REGISTRATION NUMBER: N/A
REACH PREREGISTRATION NUMBER: N/A
APPLICATION OF THE SUBSTANCE: Raw material: Fragrance/flavor application
CAS No (TSCA) 8000-66-6
EINEC
FEMA No
FDA No

1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

The Essential Oil Company
9225 SE 7the Ave.
Portland, Oregon 97212
503-872-8772

FOR FURTHER INFORMATION, PLEASE CONTACT:

E-mail address: Robert Seidel: robert@essentialoil.com

EMERGENCY TELEPHONE NUMBER

800-729-5912
2. HAZARDS IDENTIFICATION

Emergency Overview

Label elements, including precautionary statements

Label Elements
Label elements according to Regulation (EC) No. 1272/2008

![Label Elements](image)

Label elements according to Directive 67/548/EEC or 1999/45/EC

Classification system:
The classification is according to the latest editions of EU lists, and extended by company and literature data.

Additional Information:
See section 16 for the wordings of listed R-, S-phrases, H-statements and Hazard codes.

Emergency Overview

Precautionary Statements – Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed in workplace
Keep away from heat/sparks/open flames/hot surfaces. –No smoking

Precautionary Statements – Response
Specific treatment (see ? on this label)
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call POISON CENTER or doctor/physician
Do not induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements – Storage
Store locked up
Store in well-ventilated place. Keep cool

Precautionary Statements – Disposal
Dispose of contents/container to an approved disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terpinyl Acetate</td>
<td></td>
<td></td>
<td>43.8</td>
</tr>
<tr>
<td>1,8 Cineol</td>
<td></td>
<td></td>
<td>38.2</td>
</tr>
</tbody>
</table>

Hazard Impurities: Not Applicable

Content of R65 classified products: No

Dangerous components:

4. FIRST AID MEASURES

First aid measures for different exposure routes

General Advice
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or clothing

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing
for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin contact**
Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.

**Inhalation**
Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

**Ingestion**
Do not induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

**Protection of first-aiders**
Use personal protective equipment.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**
May cause sensitization of susceptible persons. Treat symptomatically.

Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after accident.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**
Use: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol-resistant foam.
Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from chemical
Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data
| Sensitivity of Mechanical Impact | None |
| Sensitivity to Static Discharge   | Yes  |

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharge.

Environmental precautions

Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize
spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static discharge (which might cause ignition of organic vapors).

Conditions for safe handling


Incompatible products None known based on information supplied.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Exposure guidelines This product does not contain hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
### Exposure controls

#### Engineering measures
- Showers
- Eye wash stations
- Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**
- Tightly fitting goggles. Face-shield

**Skin and body protection**
- Chemical resistant apron

**Respiratory protection**
- If exposure limits are exceeded for irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**
- When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work are and clothing. Remove and wash contaminated clothing before re-use.

**Safety Gloves**
- Tight safety goggles

**Respiratory Protection**
- Protective Clothing

### Environmental exposure controls
Prevent entry into drains, ground/surface water or sewerage system

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**9. PHYSICAL AND CHEMICAL PROPERTIES**
9.1 Information On Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20ºC</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless to pale liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic sweet, spicy</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>+24 @27°C</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>188°C (370°F)</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>56.67°C closed cup</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.910 – 0.93 @20ºC</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.430 – 1.500 @25ºC</td>
</tr>
<tr>
<td>Evaporation Rate VALUE</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammable Properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No information available</td>
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<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
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<tr>
<td>Vapor Pressure @20ºC</td>
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</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in alcohol</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No information available</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
Not reactive, stable at room temperature

Chemical stability
Stable under recommended storage conditions

Possibility of hazardous reactions
Reactions with strong oxidizers

Conditions to avoid
Heat, flames and sparks

Incompatible materials
Avoid strong acids strong bases and all oxidizing agents

Hazardous decomposition products
No dangerous decomposition products expected by intended use

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product information
Product does not present an acute toxicity hazard based on known information

Inhalation
There is no data available for this product

Eye contact
There is no data available for this product

Skin contact
There is no data available for this product

Ingestion
There is no data available for this product
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LG50 inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardamom Oil</td>
<td>5000 mg/kg</td>
<td>No data available</td>
<td>No data Available</td>
</tr>
</tbody>
</table>

**Information on toxicological effects**

**Symptoms**
No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization**
No information available

**Mutagenic effects**
No information available

**Carcinogenicity**
No information available

**Reproductive Toxicity**
No information available

**Specific target organ systemic toxicity (single exposure)**
No information available

**Specific target organ systemic toxicity (repeated exposure)**
No information available

**Chronic toxicity**
Repeated exposure may cause allergic reactions in very susceptible persons. Avoid repeated exposure

**Aspiration hazard**
No information available

**CMR Effects**

- **Carcinogen**
  No information available
- **Mutagen**
  No information available
- **Reprotoxic**
  No information available

**Exposure Limits**

Note: There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established
12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardamom Oil</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

No information available

**Bioaccumulation**

No information available

**Other adverse effects**

No information available

13. DISPOSAL CONSIDERATIONS

**Waste treatment**

**Waste disposal methods**

Dispose of in accordance with local regulations

**Contaminated packaging**

Do not re-use empty containers

**Recommendations:**

Empty contaminated packing thoroughly as they may be recycled.
Moistened solids to be disposed of adhering to necessary technical regulations after consulting concerned authorities

14. TRANSPORTATION INFORMATION

DOT

BULK PACKAGING

Marine Pollutant

not regulated

DOT

NON BULK PACKAGING

Marine Pollutant

not regulated

IMDG/IMO

UN Number 1993

Proper shipping name Combustible liquid n.o.s.

Hazard Classification 3

Packaging Group III

Marine Pollutant

MEX

UN Number

Proper shipping name

Hazard Classification

Packaging Group

ICAO

UN Number

Proper shipping name
Hazard Classification
Packaging Group
ICAO/IATA
UN Number
Proper shipping name
Hazard Classification
Packaging Group
TDG
UN Number
Proper shipping name
Hazard Classification
Packaging Group
RID
UN Number
Proper shipping name
Hazard Classification
Packaging Group
ADR/RID
UN Number
Proper shipping name
Hazard Classification
Packaging Group
AND
UN Number
Proper shipping name

Hazard Classification

Packaging Group

ADR/IMDG/IATA Labels:

Special precautions for users:

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before re-use. Prevent entry into drains, ground/surface water or sewerage system.

15. REGULATORY INFORMATION

EU regulations

This product has been classified and marked in accordance with the EU Directives/Ordinance on Hazardous Materials.

Internal Inventories

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

Legend:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List
EINICS/ELINCS – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

AICS – Australian Inventory of Chemical Substances

**Sudden Release of Pressure Hazard**  
No

**Reactive Hazard**  
No

**Clean Water ACT**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization ACT (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

**California Proposition 65**

This product does not contain any Proposition 65 Chemicals

### 16. OTHER INFORMATION

**Relevant R – and S phrases**

- **R10**  FLAMMABLE.
- **R38**  IRRITATING TO SKIN.
- **R43**  MAY CAUSE SENSITIZATION BY SKIN CONTACT.
- **R65**  HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
- **R50/53**  VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S24 AVOID CONTACT WITH SKIN.

S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.

S62 IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Relevant H-, P – Statements and Hazard Codes

H226 FLAMMABLE LIQUID AND VAPOUR

H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

H315 CAUSES SKIN IRRITATION

H317 MAY CAUSE AN ALLERGIC SKIN REACTION

H400 VERY TOXIC TO AQUATIC LIFE

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

P303+361+353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

P370+378 IN CASE OF FIRE: USE ... FOR EXTINGUISHING

P403+235 STORE IN A WELL VENTILATED PLACE. KEEP COOL

P501 DISPOSE OF CONTENTS/CONTAINER TO ... ( IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)

FL 2 FLAMMABLE LIQUID 2

SCI 2 SKIN IRRITANT 2

SS 1 SKIN SENSITISATION 1

AH 1 ASPIRATION HAZARD CATEGORY 1

EH A1 ACUTE AQUATIC TOXICITY 1

EH C1 CHRONIC AQUATIC TOXICITY 1
Revision Date 7/25/15

Revision Note  No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet